Cost Proposal
Bacon Academy Diesel Fuel Release Evaluation

TRC will complete the below scope of work on a time and materials basis for a not-to-exceed cost of **$77,302.00**. TRC will utilize the labor rates in our Connecticut Department of Administrative Services (CTDAS) Contract 18PSX0153 (Environmental, Investigation, Remediation and Project Management). Should a change in scope occur, TRC will submit any required change order for prior review and approval.

Tasks	Rates	Hours	Costs
Task 1 Evaluate Release Area, Initiate Product Recovery, Prepare Approach to Address Residual Impacts			
Principle In Charge (P.E.)	$203	8	$1,624.00
LEP	$175	6	$1,050.00
Project Manager	$154	16	$2,464.00
Sr. Geologist	$118	16	$1,888.00
Geologist	$87	80	$6,960.00
CAD Support	$99	8	$792.00
Clerical Staff	$65	4	$ 260.00
ODCs – Travel, Equipment and Materials	-	-	$1,750.00
Subtotal			**$16,788.00**
Subcontractors[1]			
Utility Locating/Mapping	-	-	$1,750.00
Environmental Services, Inc. (ESI)[2]	-	-	$45,500.00
Laboratory Fees[3]	-	-	$2,750.00
Monitoring Well Survey			$3,000.00
Subtotal			**$53,000.00**
Task 1 Total			**$69,788.00**
Task 2 Prepare ECAF, Enroll Site into CTDEEP Voluntary Cleanup Program			
LEP	$175	4	$ 700.00
Project Manager	$154	4	$616.00
Sr. Geologist	$118	4	$472.00
Geologist	$87	16	$1,392.00
CAD Support	$99	4	$396.00
Clerical Staff	$65	2	$130.00
ODCs – EDR Report, Document Repro.	-	-	$425.00
ECAF Filing Fee (Payable to CTDEEP)	-	-	$3,250.00
Task 2 Total			**$7,381.00**
Total: Tasks 1 & 2			**$77,169.00**

Notes:

[1] – Subcontractor fees include a 10% markup.

[2] - Subcontractor cost based on scope-of-work provided by TRC to ESI (attached) and estimated level of effort to complete each task and includes worst-case conditions for the installation of the monitoring and observation wells; rates will be adjusted accordingly based on actual level of effort in the field.

[3] - Environmental laboratory rates are based on DAS Contract 19PSX0095 (Phoenix Environmental Laboratories as the least-cost provider). Note, rates are based on standard turnaround times, a surcharge will be applied for any rush analysis requested.

Bacon Academy Remediation Support
Services Quote Request

Background

An estimated 1,500 – 1,7000 gallons of diesel fuel was released within the school's boiler room when the solenoid valve and high-level float switch associated with the day-tank for the emergency generator failed. Product entered the floor drains and made its way to a small stream located on the northern side of the property. ESI, as the spill response contractor, recovered approximately 1,000 gallons from the building's drainage network and the stream. Currently, absorbent booms remain deployed to capture residual product. Product penetrated cracks and seams in the boiler room's concrete slab floor. Free phase product was observed in several sub-slab locations on the groundwater encountered at approximately 2 to 2.5 feet below slab grade.

Scope of Remedial Services

Evaluate extent of petroleum impacts to the sub-slab soils and Site groundwater and perform limited product recovery to evaluate the level-of-effort need to recover the remaining product and limit the advancement of the groundwater contamination plume.

Requested Services:

- Install four properly constructed 2-inch groundwater monitoring wells around the exterior of the building.
    - Three overburden monitoring wells to be located on the northern side of the building outside the boiler room (presumed down-gradient location).
    - One overburden monitoring well installed in a presumed up-gradient location (southern side/front of school).
    - Each well to be constructed with 10 feet of No. 10 slotted screen (top of screen set two feet above the groundwater interface and eight feet below, or to the depth of bedrock if encountered), sand pack and bentonite grout seal, and completed with a flush-mount road box set in concrete with a locking gripper plug.
- Install six 2-inch observation wells within the boiler room at locations where ESI identified product or heavy impacts and additional locations for spatial coverage.
    - Core (6-inch diameter) through slab and complete soil macro-cores to depth of 8 feet below the slab or bedrock refusal, whichever is less.
    - Install 4 – 6 feet of 2-inch PVC No. 10 slotted screen.
    - Complete with 6-inch flush-mount road box, bentonite grout and gripper plug (hydraulic cement grout between slab and road box skirt to mitigate vapor intrusion).
- Using a vacuum truck, draw on each sub-slab observation well and monitor for product recovery.
- Pressure jet floor drains to remove residual product.

Prior to drilling, TRC will coordinate with a private subsurface utility locating service to screen each selected boring location for buried utilities. TRC will log each soil boring location and record PID measurements, water levels and product thickness (if observed). Following installation, each interior well location exhibiting measurable product will be drawn on using a vacuum truck, then monitored for recovery. These services will need to be performed during weekend periods; two separate product draw-down events spaced one week apart.

Bacon Academy
Remediation Support Services

Please provide cost as follows

1) Four 2-inch monitoring wells (max depth 30 feet), complete: $ 6,234.00 to 8,874.00 (one to two days)

2) Six 2-inch sub-slab well points, complete: $ 15,000.00

3) Jetting of floor drains, recovery and disposal of wastewater: $ 7,000.00

4) Weekend day rate for vacuum truck service (two events): $ 5,400.00 (2 x $2,700.00)*
   * Includes Equipment Operator and Technician

5) Disposal Costs (est.): $ 5,000.00
   (oil / water mixture and soil drill cuttings)

Total: $ 38,634.00 - $41,274.00